BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work: Development Works for providing Drinking Water Facility in Ward.No.08 (Kodigehalli), Kodigehalli Sub Division

Estimate Cost Rs. 2500000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Cutting road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the following classifications.								
A	Cutting Asphalt surface (Page No. 9, Item No. 4(2) of BWSSB SR 2014-15)								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Cum	1	1757.50	0.60	0.025	26.36		
							26.36	394.00	10387.00
B	Cutting Macadum surface (Page No. 9, Item No. 4(1) of BWSSB SR 2014-15)								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Cum	1	1757.50	0.60	0.200	210.90		
							210.90	215.00	45344.00
2	Earthwork excavation for pipeline trenches (except building works) including barricading, deporiting on bank with all lead including danger lighting andusing sight rails and boing roads including shoring, strutting, bailing out water at every 100 m wherever necessary as directed in the following strata - In all soils mixed with boulders of 30 cm size upto and exclusive of disintegrated rock. (Page No. 8, Item No. 4(3) of BWSSB SR 2014-15) 0 to 2.00 depth 119								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Cum	1	1850.00	0.60	0.75	832.50		
							832.50	134.00	111555.00
	Basic Rate ~~188.00~~ 134								
3	Supplying PVC ringtite pipes conforming to IS 4985-2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissisoning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (exlcuding cost of specials) with jointing of approved type, with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15 cm with soft gravel or selected earth available from the excavation etc., complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) - 75 mm outer dia 6 kkg/cms2. (Page No. 53, Item No. 1(6) of BWSSB SR 2014-15)								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Rmtr	1	1850.00			1850.00		
							1850.00	157.00	290450.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Refilling of available earth around pipelines, in layers not exceeding 20 cm in depth, compacting each de3posited layer by ramming after watering a ll lead and lift including cost of all alabour including consolidation by mechancial means approved by engineer in charge when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified proctor test) for restoration of roads without settlement including HOM of machineries complete. (Page No. 9, Item No. 2 of BWSSB SR 2014-15)								
		Cum		Qty. Vide Item No. 1			832.50	60.00	49950.00
5	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, Page No. 157 / Item No. 20.18 / PWD SR 2015-16								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Cum	1	1850.00	0.60	0.200	222.00		
				1850.00			222.00	1713.96	380499.00
	Basic Rate 1587.00 Area Weightage @ 8% 126.96 Total 1713.96								
6	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 P. 160 / I. 21.1 PWDSR 2015-16								
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Sqm	1	1850.00	0.60		1110.00		
							1110.00	12.96	14386.00
	Basic Rate 12.00 Area Weightage @ 8% 0.96 Total 12.96								
7	KSRRB M500-6: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, Page No. 160 / Item No. 21.5 / PWD SR 2015-16								
	Qty Vide Item No. 6	Sqm					1110.00	70.20	77922.00
	Basic Rate 65.00 Area Weightage @ 8% 5.20 Total 70.20								
8	KSRRB M500-18: Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 509 complete in all respects as per specifications, using 100-120 TPH capacity H.M.P with sensor paver grading II (30 to 45mm) with 6% CRMB-55. (Item No. 21 23.2 Page No. 164, PWD SR 2015-16)								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	In cross roads of Devinagara, Muneshwaranagara, Bhadrappa layout, Maruthinagaa, Balaji layout and kodigehalli	Cum	1	1850.00	0.60	0.040	44.40		
				1850.00			44.40	11843.28	525842.00
	Basic Rate								
	Area Weightage @ 8%								
	Total								
9	*Supply of Drinking Water through water tankers of Capacity 6000 Liters*								
	Hiring of Water Tanker (Page No. XXXVIII, Code No. 1032) For 3000 Liter Capacity = 485.60 =242.80	*per day*	*1*	*@*			*242.80*	*242.80*	
	2) Hiring of Tractor 40HP Procurement of Water -- Rs. 216.00 / Load (6000 Liters) Considering 3000 Liters cost is Rs. 108.00/Load Considering 5 Loads/Day 5X108.00=540.00	*per day*	*1*	*@*			*1296.00*	*1296.00*	
	Engaging Heavy Mazdoor (Page No. XXXXXII Sl No. 5, PWD SR 2010-11)	*Per Load*	*5*	*@*			*108.00*	*540.00*	
	For 5 loads		*1*	*@*			*183.12*	*183.12*	
	For 1 load / 5							*2261.92*	*2546.35*
	say							*452.38*	*509.27*
								452.00	*509.00*
	Rs. 452.00/Load/Day								
	Considering 5 Loads/Day with 1 vehilces for 90 days = 900 trips at 452/-								
9	Supply of Drinking Water through water tankers of Capacity 3000 Liters including hiring of water tankers, hiring of tractor 40HP including cost of water and engaging heavy mazdoor to deliver water from source to supply point including cost of fuel, lubricants, men and machinary, all leads and lifs, transportation, labour etc. complete.	Trips	450				450	452.0	203400.00
	B) Replacement of Motor Parts:								
10	Starter (with one year Guarantee) (Page No. 58, Item No. C(1) of BWSSB SR 2014-15)	No.	11				11	5940.00	65340.00
11	Rotor (with one year Guarantee)(Page No. 59, Item No. C(2) of BWSSB SR 2014-15)	No.	11				11	4400.00	48400.00
12	Upper Flange (Page No. 59, Item No. C(3) of BWSSB SR 2014-15)	No.	11				11	330.00	3630.00
13	Lower Housing (Page No. 59, Item No. C(4) of BWSSB SR 2014-15)	No.	11				11	539.00	5929.00
14	Carbon Housing (Page No. 59, Item No. C(7a) of BWSSB SR 2014-15)	No.	11				11	407.00	4477.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Thrust bearing block assembly complete with Segment bearing pad.(Page No. 59, Item No. C(7b) of BWSSB SR 2014-15)	No.	11				11	550.00	6050.00
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
16	Oil Seal (Page No. 58, Item No. B(3) of BWSSB SR 2014-15)	No.	11				11	121.00	1331.00
17	Oil Seal Steel Bush (Page No. 58, Item No. B(4) of BWSSB SR 2014-15)	No.	11				11	132.00	1452.00
18	Guide vane (Page No. 58, Item No. B(5) of BWSSB SR 2014-15)	No.	165				165	192.50	31763.00
19	Impeller Shell moulded with aluminium Bronze) (Page No. 58, Item No. B(6) of BWSSB SR 2014-15)	No.	165				165	264.00	43560.00
20	Discharge outlet (D.O) Bearing D.O Steel Bush (Page No. 58, Item No. B(7) of BWSSB SR 2014-15)	No.	11				11	522.50	5748.00
21	Steel bearing bush (Page No. 58, Item No. B(8) of BWSSB SR 2014-15)	No	11				11	176.00	1936.00
22	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) (Page No. 58, Item No. B(10) of BWSSB SR 2014-15)	No	11				11	660.00	7260.00
23	Non – return valve (NRV) assembly complete with rubber 'O' Ring (Page No. 58, Item No. b(13) of BWSSB SR 2014-15)	No.	11				11	572.00	6292.00
24	Cable Guard (Page No. 58, Item No. B(14) of BWSSB SR 2014-15)	No.	11				11	165.00 ~~150.00~~	1815 ~~1650.00~~
25	Brass Filter (Page No. 58, Item No. B(16) of BWSSB SR 2014-15)	No.	11				11	121.00	1331.00
26	Re-erection charges of pumping machineries including overhauling and pointing (Page No. 58, Item No. B(17) of BWSSB SR 2014-15)	Each	11				11	550.00	6050.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
27	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. ~~49/1~~ 12 No. ~~29-b(1)~~ 2.10.3 4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR ~~2010-11~~ 14-15	Mtr	1	260.00			260.00	126.70 151.00	32942 39260.00
28	Drinking Water Fountaings	LS							300000.0
	Sub Total								3,90,000/- ~~2291194.00~~ 2291935.00
29	KRIDL charges at 8% of estimated cost								183355/- ~~183296.00~~
30	For Third Part QC inspection Charges @ 1% of Estimate Cost								22919/- ~~22912.00~~
31	Miscellaneous and other Charges	L/S							1791/- ~~2598.00~~
								Total	**2500000.00**

(Rupees Twenty Five Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2015-16, PWD Elecrical 2014-15, PRED 2012-13 & SE-RDED approved
3 The provisions were made in this estimate are necessary and adequate.

Assistant Engineer
Ward no. 8

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

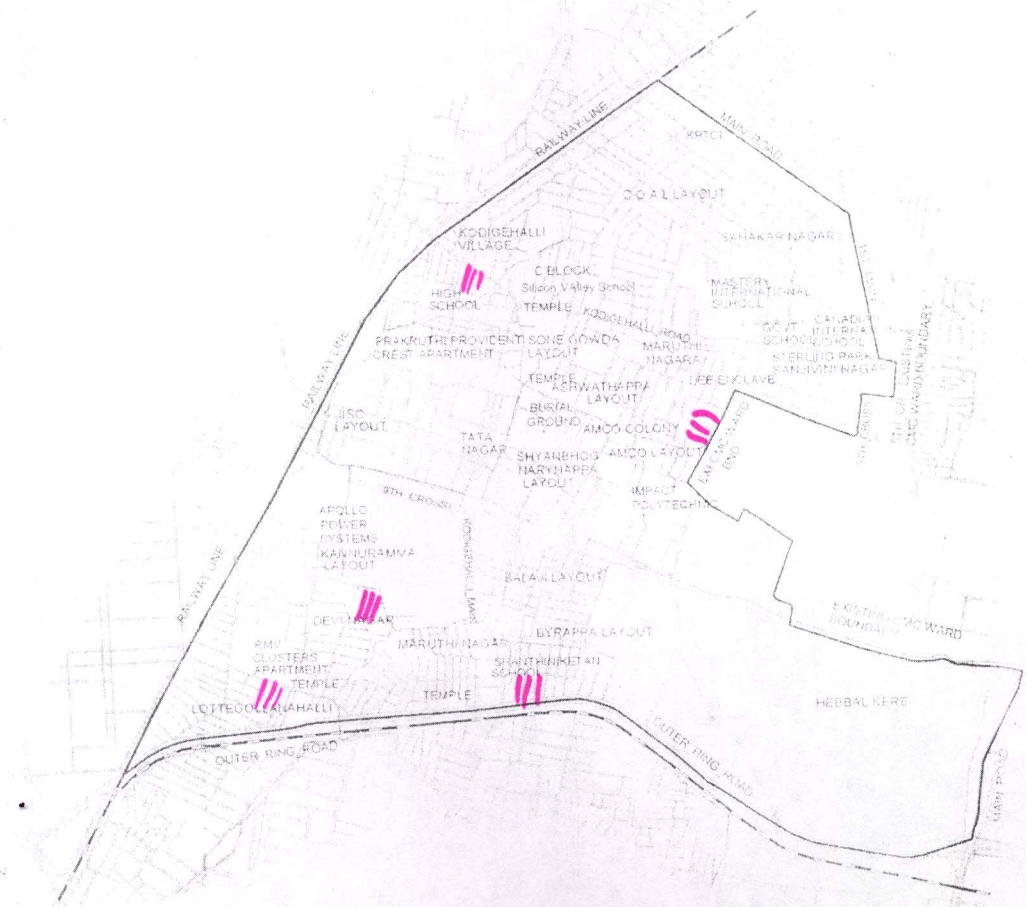
Administrative Approval
Accorded For 2500000/-
Head of A/C P-3110
CER NO :134 Dt:10.03.16

TA CE (YNK)

Technical Sanction
Accorded For 2500000/-
Head of A/C P-3110
CER NO :123 Dt:10.03.16

TA CE (YNK)

152 - BYATARAYANAPURA AC
WARD NAME : 8 - KODIGEHALLI



= pipeline works.

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- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD

Assistant Engineer
Ward 8

Assistant Executive Engineer
Kodigehalli sub-division